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EIGHTH BI-MONTHLY PROGRESS REPORT
UNIVERSITY OF ALASKA
ERTS PROJECT 110-12
November 30, 1973

A. TITLE OF INVESTIGATION:

Evaluation of feasibility of mapping seismically active faults in Alaska.

B. PRINCIPAL INVESTIGATOR/GSFC ID:

Larry Gedney/GSFC ID: UN601

C. PROBLEMS IMPEDING INVESTIGATION:

None.

D. PROGRESS REPORT:

1. Accomplishments during reporting period:

The past two months have been spent almost exclusively on the preparation of presentations and reports. In October, the principal investigator made presentations to the evaluating committee at GSFC on University of Alaska projects 110-11 and 110-12.

At least two new reports have come out of the last two months. The first is an interim scientific report (see significant results), and the second is a paper which will be presented to the 3rd ERTS symposium in December.

2. Plans for next reporting period:

After presentation of a paper to the 3rd ERTS symposium, the time remaining under this project will be spent in preparing the final report, and in consolidating all the results for publication.

E. SIGNIFICANT RESULTS:

The significant results for this reporting period are being submitted in the form of an interim scientific report entitled "Seismically active lineaments in south-central Alaska as seen on ERTS-1 imagery".

F. PUBLICATIONS:

a) In preparation:

Gedney, Larry and James VanWormer, ERTS-1, Earthquakes, and Tectonic evolution in Alaska, 3rd ERTS symposium, Washington D. C. December, 1973.

b) In press:

Gedney, Larry and James VanWormer, Tectonic mapping in Alaska with ERTS-1 imagery, Photo Interpretation.

(E74-10116) EVALUATION OF FEASIBILITY OF
MAPPING SEISMICALLY ACTIVE FAULTS IN
ALASKA Bi-monthly Progress Report (Alaska
Univ., Fairbanks.) 2 p HC \$3.00 CSCI 08B

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N74-13043

b) In press (continued)

Gedney, Larry and James VanWormer, Seismically active lineaments in south-central Alaska as seen on ERTS-1 imagery, interim scientific report, NASA Contract NAS5-21833, 30 November, 1973.

c) Published:

Gedney, Larry, "Finding faults" with ERTS-1 imagery, The Northern Engineer, Vol. 5, No. 1, pp. 3-5, Spring, 1973.

VanWormer, J., L. Gedney, J. Davies, and L. Shapiro, Central Alaska seismicity, 1972, Program with Abstracts, 68th Annual National Meeting of the Seismological Society of America, p. 49, 19 May, 1973.

Gedney, Larry and James VanWormer, Some aspects of regional tectonics in Alaska as seen in ERTS-1 imagery, Symposium on Significant Results obtained from ERTS-1, Abstracts, Paper G-23, March, 1973.

Gedney, Larry and James VanWormer, Tectonic mapping in Alaska with ERTS-1 imagery, interim scientific report, NASA contract NAS5-21833, 25 May, 1973.

VanWormer, J., J. Davies, and L. Gedney, Central Alaska earthquakes during 1972, Scientific Report UAG R-224, Geophysical Institute, University of Alaska, August, 1973.

Gedney, Larry and James VanWormer, Some Aspects of active tectonism in Alaska as seen on ERTS-1 imagery, Symposium on Significant Results obtained from the Earth Resources Technology Satellite- 1, Vol. I: Technical Presentations, Section A, pp. 451-457, March, 1973.

Gedney, Larry and James VanWormer, Earthquake probabilities in selected areas of Alaska based on b-slope monitoring, Proceedings, U.S. - Japan Conference on Earthquake Prediction and Control, August 13-15, 1973, Boulder, Colorado.

G. RECOMMENDATIONS:

None.

H. REVISED STANDING ORDER FORMS:

None.

I. IMAGE DESCRIPTOR FORMS:

None.

J. DATA REQUESTS:

None.